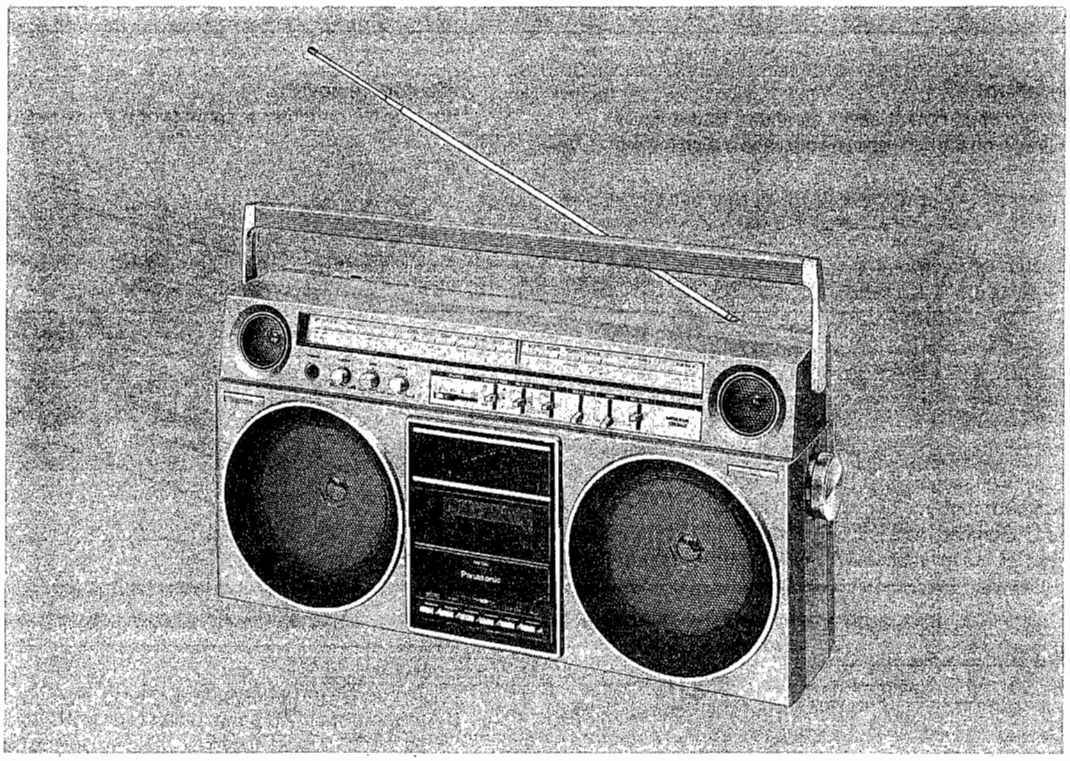
3757

Operating Instructions

FM-AM-FM Stereo Radio Cassette Recorder

MODEL NO. RX-5085



Panasonic®

Read these instructions completely before operating this set.

3757

Thank you for purchasing this Panasonic Radio Cassette Recorder. For optimum performance follow these operating instructions carefully.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTIONS:

- **Voltage ranges 110–115 V, 200–220 V and 230–250 V are not for use in USA. (in USA use 115–127 V)**
- **Operation at a voltage setting higher than 125 V AC may require the use of a different AC plug. Please contact either a local or foreign Panasonic Authorized Servicenter for assistance in selecting an alternate plug adaptor.**

The serial number of this product may be found on the label inside the battery compartment.
You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of a fire or theft.

MODEL NUMBER: RX-5085

SERIAL NUMBER: _____

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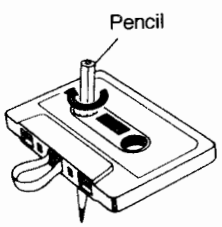
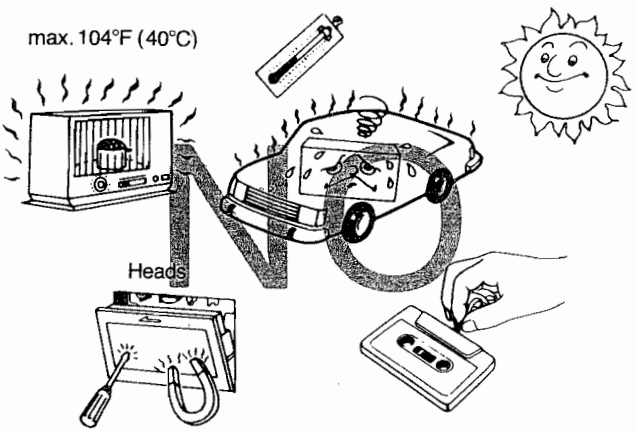
PRECAUTIONS

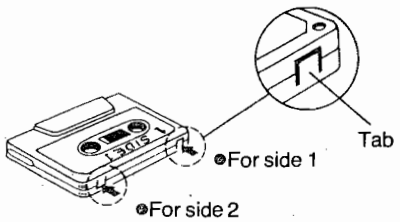
- Avoid using or placing this unit near sources of heat. Do not leave it in an automobile exposed to direct sunlight for a long time with the doors and windows closed as this may deform the cabinet.
- Cassettes should not be stored in direct sunlight or in very hot or humid locations.
- Avoid using C-120 cassette tapes with this unit because they can be easily broken, stretched or twisted if not used with extreme care.
- For added safety, disconnect the power cord from the AC power outlet when not using the unit.
- Tape looseness can be corrected by inserting a pencil through one of the cassette reels and turning it to take up the slack.

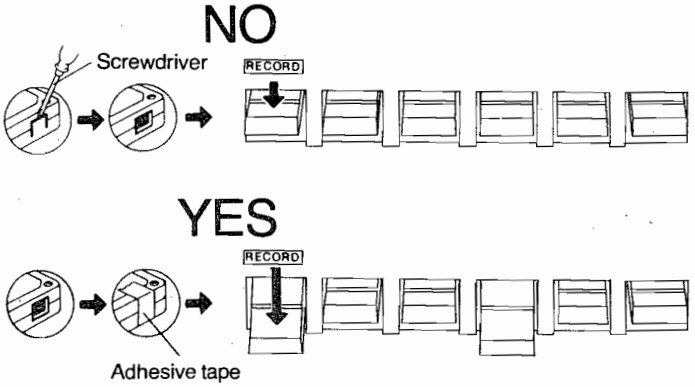




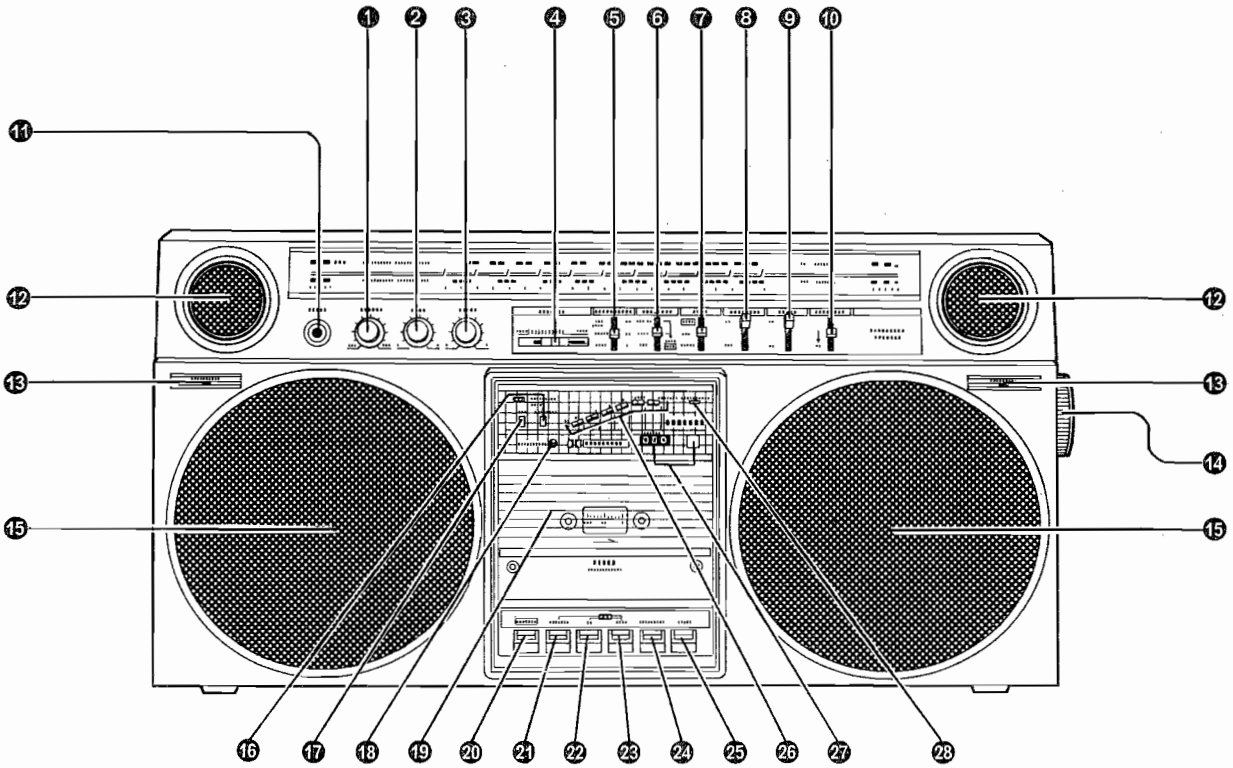
RECORD PREVENTION TABS (KNOCK-OUT TABS)

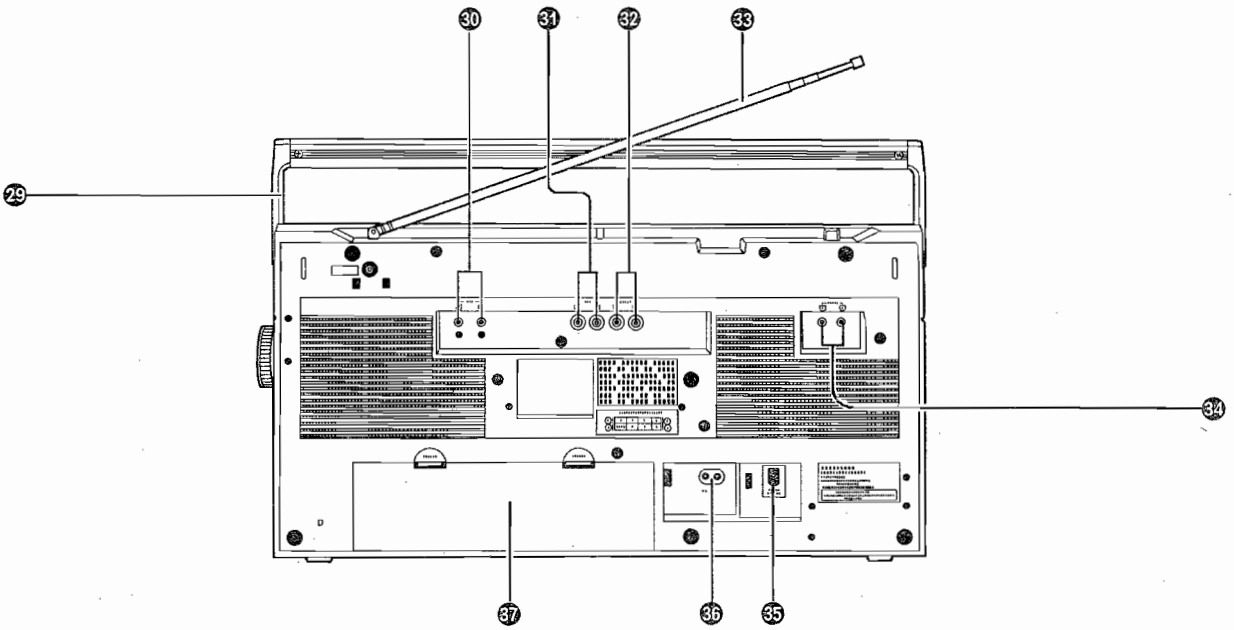
Cassettes are provided with plastic tabs (as illustrated) to prevent accidental erasing of a recording.
Recordings can be made only when the tab is intact.
There is one tab for each side (track) of the tape. To preserve a valuable recording, the tab(s) should be broken off with a small screwdriver.
If you want to record on a track whose tab has already been broken off, use adhesive tape to cover the hole, and record.





LOCATION OF CONTROLS





Dolby NR

This unit includes Dolby Noise Reduction which reduces tape noise to a remarkable degree.
Briefly, the system works as follows:
At low sound levels (where tape noise is most noticeable), the high frequency (treble) portion of the sound is recorded at a higher level.
During playback, the same high frequency portion of the sound is played back at a lower level. Since tape noise is introduced during recording and consists mainly of high frequencies, the tape noise is also reduced during playback. In effect, the sound is boosted during recording, then the sound along with the tape noise is reduced during playback. The result is unaltered sound with reduced tape noise.

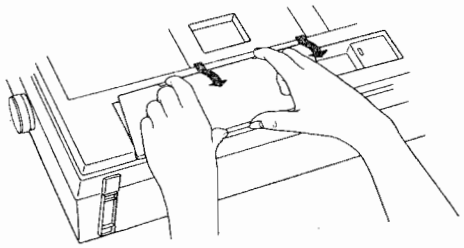
*"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
*Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

❶ Volume Control (VOLUME)
❷ Bass Control (BASS)
❸ Treble Control (TREBLE)
❹ Balance Control (BALANCE)
❺ Mode Selector/Beat Proof Switch (MODE/BEAT PROOF)
❻ Function Selector (SELECTOR)
❼ Tape Selector (TAPE)
❽ Dolby Noise Reduction Switch (DOLBY NR)
❾ Band Selector (BAND)
❿ Record Muting Button (REC MUTE)
⓫ Headphone Jack (PHONES)
⓬ Tweeters (Treble Speakers)
⓭ Built-in Microphones (MICROPHONE)
⓮ Tuning Control (TUNING)
⓯ Woofers (Bass Speakers)
⓰ Dolby Noise Reduction Indicator (DOLBY NR)
⓱ Tape Program Sensor (TPS) Indicator
⓲ Power/Battery Check Indicator (POWER/BATT)
⓳ Cassette Compartment
⓴ Record Button (○ RECORD)
㉑ Rewind Button (◀◀ REWIND)
㉒ Fast Forward Button (▶▶ FF)
㉓ Playback Button (▶ PLAY)
㉔ Stop/Eject Button (■ STOP/▲ EJECT)
㉕ Pause Button (❚❚ PAUSE)
㉖ Level Meter (LEVEL)
㉗ Tape Counter and Reset Button (COUNTER)
㉘ FM Stereo Indicator (FM STEREO)
㉙ Handle
㉚ Microphone Jacks (MIC)
㉛ Line Input Jacks (LINE IN)
㉜ Line Output Jacks (LINE OUT)
㉝ Telescopic Antenna
㉞ External Speaker Jacks [EXT SP (3–8Ω)]
㉟ Voltage Selector (VOLTAGE SELECTOR)
㊱ AC Socket (AC IN ~)
㊲ Battery Compartment

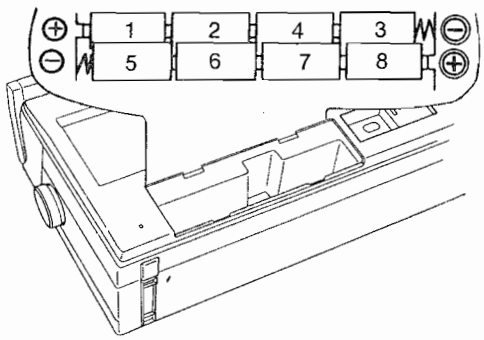
POWER SOURCE

Battery Operation:

1) Open the battery compartment cover as shown in the figure below by pressing in on the two retaining tabs and pulling toward you.



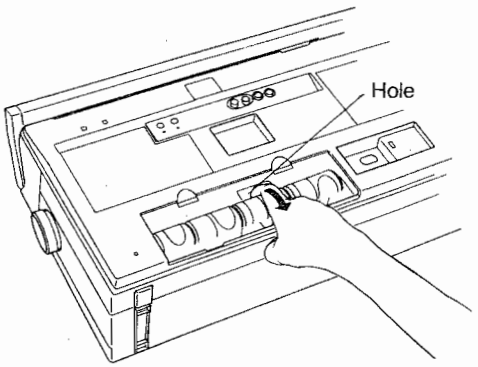
2) Insert 8 "D" size (Panasonic UM-1 or equivalent) batteries into the battery compartment, making sure that the batteries are installed in the designated numerical order and that the proper polarities (⊕ and ⊖) are maintained.



3) Replace the compartment cover.

•Battery removal

Remove the batteries as shown in the figure below.



Note:
To operate on battery power, unplug the AC power cord from the household AC power outlet and the AC Socket on the unit as the AC Socket automatically switches the batteries.

●Battery life

When the batteries are weak, the tape speed will slow down, the sound will become distorted, and the volume will decrease.
Set the Function Selector to "TAPE".
Depress the Playback Button. When the Battery Check Indicator goes out or dims, it is time to replace all the batteries with new ones.

POWER/BATT ☼ **NORMAL**

YES

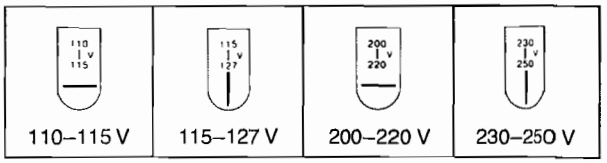
POWER/BATT ● **REPLACEMENT**

NO

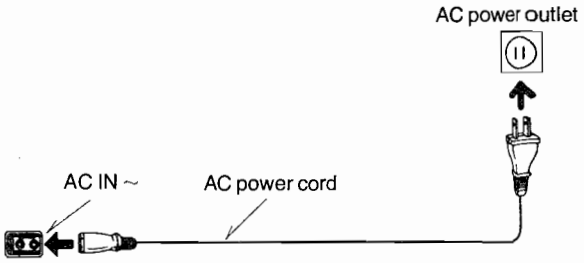
Note:
When the Function Selector or other controls are switched, the indicator may light up. This does not indicate that anything is wrong with the set.

■ AC Power Operation:

1) First, check the AC Voltage Selector to insure that it is set to the voltage which corresponds to your household AC voltage. If not, select the proper voltage by inserting a small screwdriver into the slot provided and turning the screwdriver until the desired voltage appears through the opening.



2) Connect the accessory AC power cord to the AC Socket in the unit and your household AC power outlet. Upon plugging the power cord into the AC Socket, the unit will automatically switch from battery to AC operation.



RADIO

1) Set the Function Selector to "RADIO".
   ●The Power Indicator will light.
2) Set the Band Selector to the desired radio band (AM or FM).
3) Set the Mode Selector to "AMBIENCE", "STEREO" or "MONO".
4) Set the Volume Control for the desired sound level.
5) Tune in your favorite station using the Tuning Control. Adjust the Tuning Control for optimum sound quality.
6) Adjust the Volume, Balance, Bass and Treble Controls.
7) The radio can be turned off by setting the Function Selector to "POWER OFF".

■ FM AFC

This unit utilizes an Automatic Frequency Control (AFC) circuit which locks the tuned station during FM and FM stereo reception. This assures additional stability without frequency drift.

Notes:
- ●To receive FM stereo broadcasts, set the Mode Selector to "AMBIENCE" or "STEREO". The FM Stereo Indicator will light during stereo broadcasts.
- ●If FM stereo reception is poor (excessive noise, FM Stereo Indicator flickers). Set the Mode Selector to "MONO". This will reduce the noise and provide clear reception; however, the broadcast will not be heard in stereo.

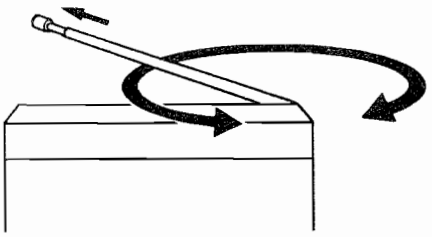
■ Ambience

The Ambience Sound System enhances the sound from a normal stereo sound source.
This unit increases the stereo imaging, thereby broadening the listening area of the stereo sound. Therefore, you can enjoy the stereo sound as if you were in a concert hall.

Antennas:

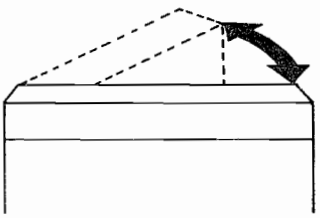
FM:

●Pull out the Telescopic Antenna and adjust its length and angle for optimum reception.



AM:

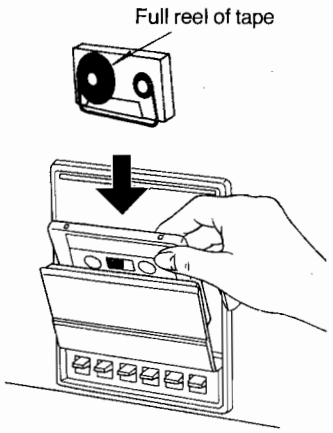
●The sensitive ferrite core antenna inside the set will provide excellent AM reception in most areas. For optimum reception, turn the set in the direction which gives the best results since the ferrite core antenna is directional.



■ Level Meter

The Level Meter lights to indicate the source level in each mode: radio, tape playback and recording, and even when using the unit as an amplifier with extreme sound sources.

1) Open the Cassette Compartment cover by depressing the Stop/Eject Button. Insert the cassette as shown in the figure, and then close the Cassette Compartment cover.



Note:
Make sure the exposed part of the cassette tape is face down. If it is upside down, the Cassette Compartment cannot be closed.

2) Set the Function Selector to "TAPE".
3) Set the Tape Selector as shown in the table, according to the cassette tape used.

●Tape Selector Settings for Various Tapes

Tape Selector position	Tape
METAL	Metal tape
CrO_2	High bias chromium tape or equivalent
NORMAL	Low bias ferric oxide tape

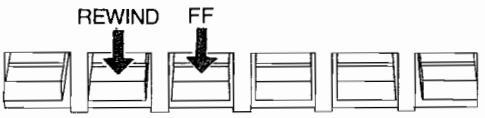
4) Set the Mode Selector to "AMBIENCE", "STEREO" or "MONO".
5) Depress the Playback Button, and playback will begin.
   ●The Power Indicator will light.
6) Set the Dolby Noise Reduction Switch to "IN" to play back a tape recorded with Dolby Noise Reduction. The Dolby Noise Reduction Indicator will light. For other tapes, set the switch to "OUT".
7) Adjust the Volume, Balance, Bass and Treble Controls.
8) To stop playback, depress the Stop/Eject Button. Otherwise, at the end of the tape, the Playback Button will release and the power will shut off automatically.

●Tape Counter and Reset Button
The digits return to "000" when the Reset Button is depressed. The digits advance with the tape to provide a reference to quickly find a desired part of the tape.

■ Pause Button
The Pause Button can be used to temporarily stop the tape from moving during recording or playback.
Before beginning a recording, first depress and lock the Pause Button. Then, depress the Record Button. (The tape will not move.) When ready to record, depress the Pause Button to release it. This will start the tape movement for immediate recording.

Note:
Do not use the Pause Button to stop the tape for a long period of time.
The power is not turned off when the Pause Button is depressed. Always use the Stop/Eject Button to turn the power off.

■ Fast Forward and Rewind
The tape will rapidly advance in the forward direction when the Fast Forward Button is depressed.
The tape will rapidly advance in the reverse direction when the Rewind Button is depressed.



Note:
Do not depress the Playback Button during fast forward or rewind operation, as this may jam the tape. Always depress the Stop/Eject Button first, between functions.

■ Full Auto Stop
When the tape reaches the end during playback, recording, fast forward or rewind, the automatic stop system will release all the buttons and automatically turn the power off.
Note that the power is not turned off if the Function Selector is set to "LINE IN" or "RADIO"; the Function Selector must be set to "POWER OFF".

Note:
The Full Auto Stop will not function while the Pause Button is depressed.

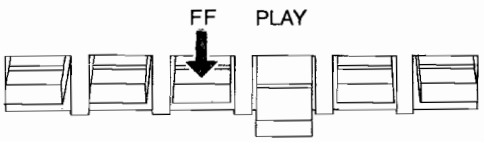
■ Tape Program Sensor (TPS)

The Tape Program Sensor can be set to automatically find and play back a predetermined selection on a recorded cassette tape.

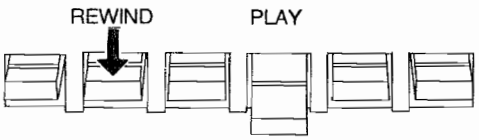
Procedure:

1) Follow the same procedure as described in steps (1)–(7) of "TAPE PLAYBACK" on page 5.
2) While in the play mode, depress the Fast Forward or Rewind Button. The TPS Indicator will light.

●Depress the Fast Forward Button. The tape will advance to the next program and automatically begin to play.



●Depress the Rewind Button. The tape will rewind to the beginning of the present program and begin to play.



TPS Intervals

The TPS function will operate with most pre-recorded tapes. For self recorded tapes, follow the procedure below.

1) Set the unit to the recording mode (refer to "TAPE RECORDING").
2) Depress and hold the Record Muting Button for 4–6 seconds after a program has been recorded. (No sound will be recorded while depressed, but the Level Meter will function.)
3) Depress the Pause Button.
4) Release the Record Muting Button.
5) Depress to release the Pause Button to record again.

In the following instances, the Tape Program Sensor may not operate normally. This does not, however, indicate a failure.

●With tapes of conversations having a great many gaps in the dialog.
●With tapes having tracks with extremely low sound levels.
●With tapes having portions among the tracks where no sound has been recorded.
●With tapes having intervals of less than 3 seconds long.
●With tapes having a high level of noise during the intervals.
●When less than 10 seconds separate the program you are listening to and the next program when you want to move on to listen to the next program.

TAPE RECORDING

●This unit has an Automatic Level Control (the recording level is automatically adjusted).
●This unit has a variable-sound monitor system, which means that the monitor sound can be adjusted using the Volume Control without affecting the recording itself.
●This unit comes with a one-touch recording mechanism.
This means that when recording you need depress only the Record Button. (In other words, you do not have to depress the Playback Button.)

■ Recording Radio Broadcasts

1) Follow the procedure described in "RADIO" on page 4.
2) Insert the cassette into the Cassette Compartment.
3) Set the Tape Selector according to the cassette tape used.
4) Depress the Pause Button and then depress the Record Button.
●The Dolby Noise Reduction Indicator will light if the Dolby Noise Reduction Switch is set to "IN".
5) Depress to release the Pause Button and the recording will begin.
6) To stop the recording, depress the Stop/Eject Button.
7) Set the Function Selector to "POWER OFF" to turn the unit off.

●Beat-Proof Switch

When an AM broadcast is recorded, the Beat-Proof Switch can be used to reduce unwanted "beat" signals (whistle) which are sometimes present. Set the switch to whichever position best reduces these "beat" signals.

■ Recording through the Built-in Microphones

The condenser microphones in this unit are omni-directional (all directions), so that recordings can be made from any direction.

1) Set the Function Selector to "TAPE".
2) Set the Mode Selector to "STEREO" or "MONO".
3) Follow the procedure described in steps (2)–(6) of "Recording Radio Broadcasts", above.

Note:
When recording through the Built-in Microphones, set the Volume Control to its minimum position.

■ Recording through External Microphones

1) Connect the optional external microphones to the Microphone Jacks. The Built-in Microphones will be automatically disconnected.
2) Follow the procedure described in "Recording through the Built-in Microphones" on page 6.

Notes:
●Use two microphones which have the same specifications.
●When only one external microphone is used for recording, the sound will be heard only from the channel (left or right) to which the microphone is connected.
To prevent recording of sounds through the Built-in Microphone for the channel (left or right) to which the external microphone is not connected, connect an erase plug (QJP0959, optional) into the Microphone Jack not being used.

■ Recording from External Equipment (Refer to page 8)

1) Connect the output terminal of the external equipment to the Microphone Jacks or Line Input Jacks.
2) Set the Function Selector to the position which corresponds to the source.
3) Follow the procedure described in steps (2)–(7) of "Recording Radio Broadcasts".

Notes:
- When recording from a TV, telephone, etc., the sound will be recorded through the Built-in Microphone corresponding to the side to which the connection is not made. To prevent this, connect an erase plug (QJP0959, optional) into the Microphone Jack not being used.
- If the volume level of the TV or other equipment is too loud during recording, the recorded sound will be distorted. Set the volume of the TV or other equipment to the usual listening level.

■ Monitoring

The monitor system enables you to listen, through the Built-in Speakers, headphones or external speakers, to the sound as it is being recorded. Sound can be monitored in the following ways:

- When recording from the radio, the sound being recorded can be monitored through the Built-in Speakers, headphones or external speakers.
- When recording from a sound source connected to the Microphone Jacks or Line Input Jacks, the sound being recorded can be monitored through the Built-in Speakers, headphones or external speakers.
- To prevent feedback (howling) when recording through the Built-in Microphones, the sound being recorded cannot be monitored through the Built-in Speakers, headphones or external speakers.
- When recording through external microphones, use headphones to monitor the sound.
  If it is necessary to adjust the volume level of the sound being monitored, do so by using the Volume Control.

Note:
If external microphones are placed too close to the speakers in the unit, feedback (howling) may be heard. If so, place the microphones as far away from the speakers as possible, or reduce the volume.

■ Erasure of Recordings

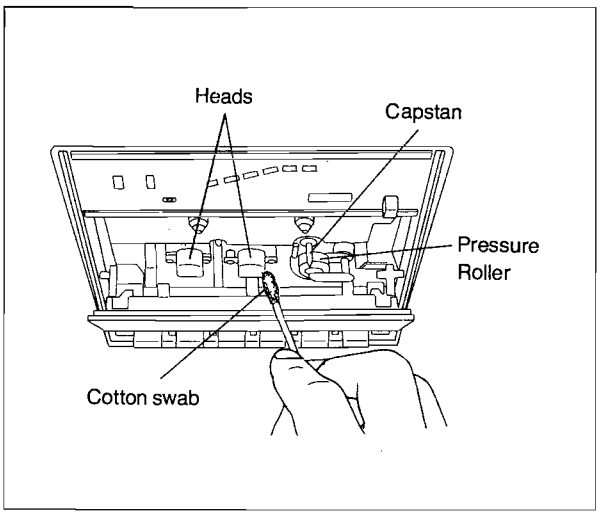
When recording, previously recorded signals on the tape will be erased automatically.
To erase a tape without re-recording, use the following procedure. (Make no connections to the Line Input Jacks).

1) Set the Function Selector to "LINE IN".
2) Set the Tape Selector according to the cassette tape used.
3) Depress the Record Button.

MAINTENANCE

The head assembly, capstan and pressure roller are in constant contact with the tape. If these parts are dirty, the sound quality will be impaired. Get into the habit of cleaning the parts regularly (after every 10 hours or so of use) in accordance with the procedure outlined below.

1) Open the Cassette Compartment cover by depressing the Stop/Eject Button.
2) Depress the Playback Button.
   The Recording/Playback Head, Erase Head, Capstan and the Pressure Roller can be seen. Clean them with a cotton swab, or a piece of wood with a soft cloth wound around it.

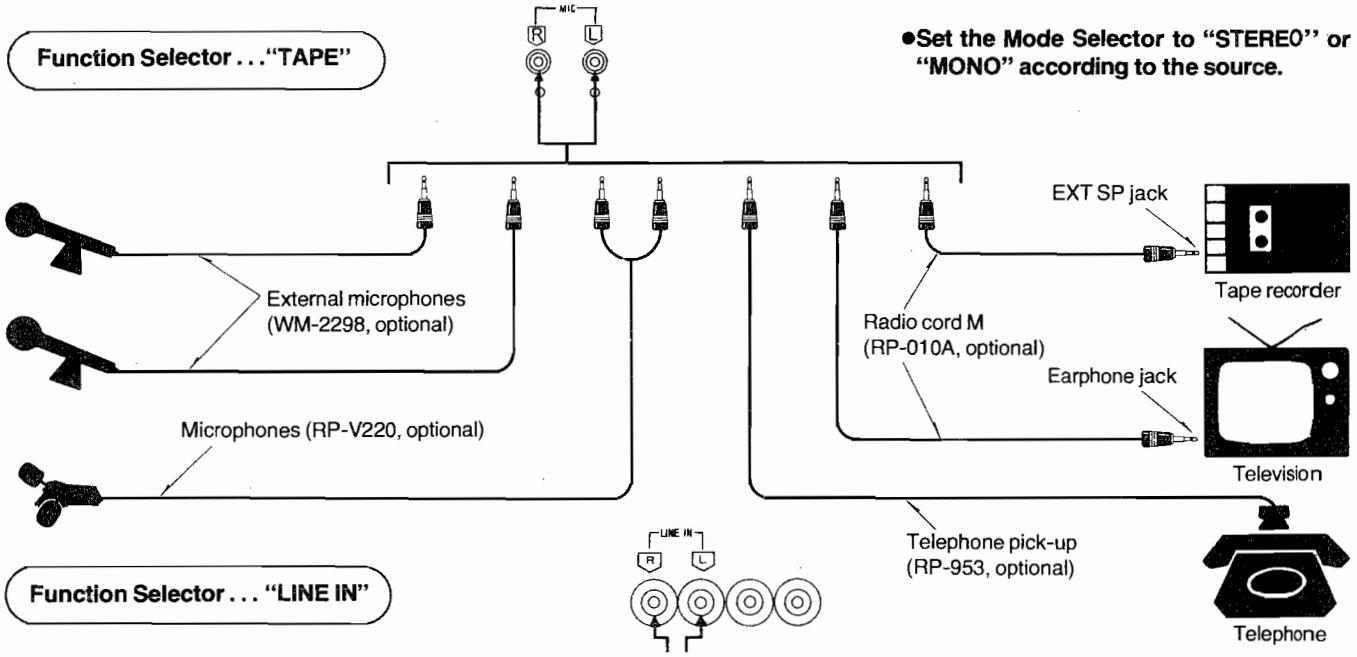


Notes:
- If the heads are extremely dirty, clean them with a soft cloth dampened with a little alcohol.
- Do not clear the capstan and pinch roller with alcohol. Alcohol can cause premature aging of the pinch roller.
- The use of cleaning tapes is not recommended, as some are abrasive and may cause premature wear of the heads. Simply, clean the head assembly as described above.
- The use of a tape head demagnetizer is not necessary. The heads will demagnetize automatically after each recording.
- Do not bring metal articles or magnetic material such as a screwdriver near the head assembly.
- Do not clean the plastic cabinet with benzine or thinner. Clean it with a solution of soap and water.

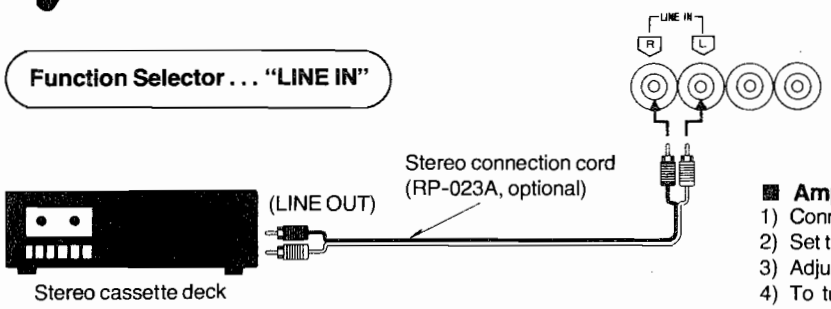
CONNECTIONS

Function Selector . . . "TAPE"

●Set the Mode Selector to "STEREO" or "MONO" according to the source.



Function Selector . . . "LINE IN"

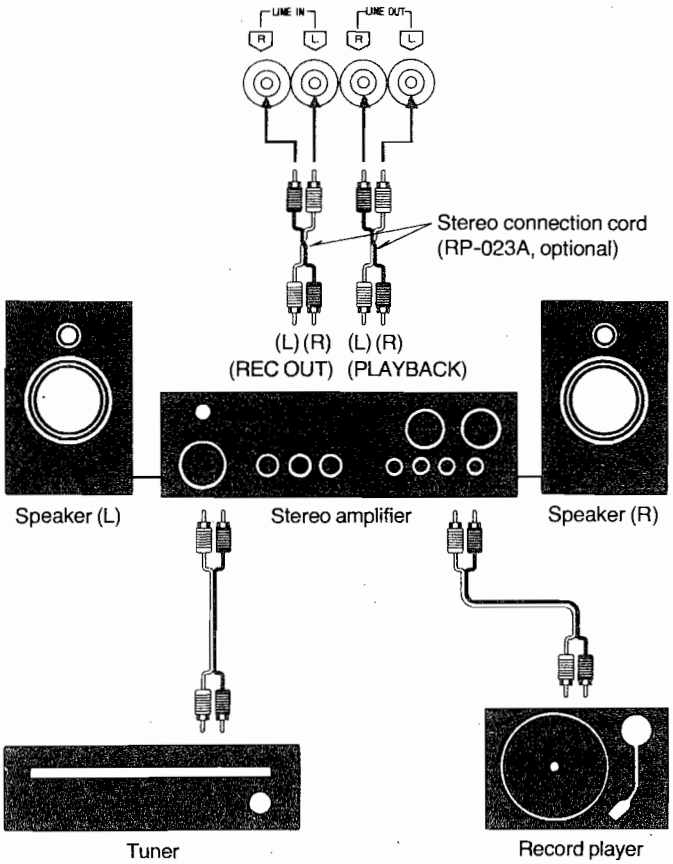


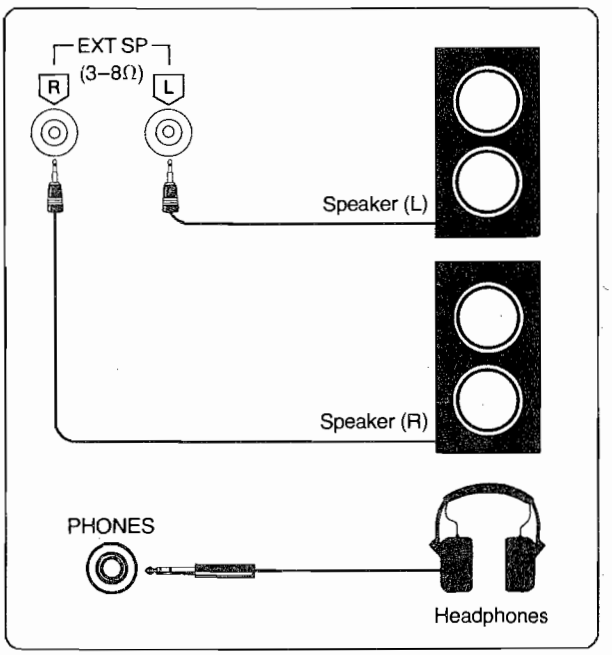
■ Amplifier Operation

1) Connect the equipment to be amplified to the Line Input Jacks.
2) Set the Function Selector to "LINE IN".
3) Adjust the Volume, Balance, Bass and Treble Controls.
4) To turn the power off, set the Function Selector to "POWER OFF".

■ Stereo Cassette Deck Operation

Function Selector . . . "LINE IN" (for recording)
"TAPE" (for playback)





Notes:

- Some audio material is copyrighted. Recordings of such material must be limited to personal use.
- It is illegal to record telephone conversations unless all persons being recorded are advised beforehand.

SUGGESTIONS FOR SAFETY

Before using this unit, be sure to read applicable items of the operating instructions and these safety suggestions carefully; and afterwards keep them handy for future reference. Take special care to follow the warnings indicated on the unit itself as well as in the operating instructions.

1. **Avoid places where there is water or humidity.**
   Do not use this unit near a bathtub, washbasin, swimming pool, or the like. Damp basements should also be avoided.

2. **Don't allow water or any foreign object to get inside this unit.**
   Don't place small metal objects or anything containing liquid on or near the unit.

3. **Avoid placement of the unit where it will be exposed to the direct rays of the sun, or where ventilation is inadequate.**
   Don't place this unit in a bookcase or between cabinets, or where curtains or furniture may obstruct the ventilation holes.

4. **Place this unit away from heat-emitting appliances.**
   Never place this unit near a radiator, heat register, stove, or any other heat-emitting equipment. (Including Amplifiers).

5. **Placement**
   Place the unit on a stable, vibration-free, level shelf or stand.

6. **Check the voltage rating of this unit before connecting the unit to a power supply.**
   Be sure to connect the unit only to the type of power supply indicated in the operating instructions, or as indicated on the unit itself.

7. **Care of the power cord and plug.**
   Take care that the cord is not bent sharply (especially near its connection to the unit or near the plug), that nothing is placed on it, and that it is not pinched or crushed. Never take hold of the plug or cord if your hand is wet, and always be sure to grasp the plug body when connecting or disconnecting it.

8. **If the unit will not be used for a long period of time:**
   Be sure to disconnect the power cord.

9. **Maintenance**
   Refer to the operating instructions for details.

10. **Never attempt repairs yourself:**
    (a) If the power cord or plug is damaged.
    (b) If a foreign object or liquid falls into the unit.
    (c) If the unit is exposed to rain.
    (d) If the unit does not function normally, or if operation shows an unusual change.
    (e) If the unit has been dropped and the cabinet or chassis are damaged . . . etc.
    Unplug the power cord and consult with a qualified technician (or the dealer from whom the unit was purchased or the nearest service center).

11. **Repairs**
    Except for adjustments explained in the operating instructions, do not attempt any repairs yourself. Be sure to request service from a qualified technician (or your dealer or nearest service center).

PRODUCT SERVICE

Should your Panasonic product ever require service, refer to enclosed Directory for an Authorized Panasonic Servicenter or consult your authorized Panasonic dealer for detailed instructions.
SERIAL NUMBER: Located on the label affixed to the inside of the battery compartment.

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